

ABSTRACT OF THE INVENTION

5 The present invention relates to compositions of and methods for producing timed or
retarded release formulations that contain glucosamine sulfate, beta- (1,4)-2-amino-2-deoxy-D-
glucose, and chondroitin, $(C_{14} H_{19} N O_{14} S Na_2)_n$; N-acetylchondrosamine (2-acetamide-2-
deoxy—D-galactopiranoside) and D-gluconic acid copolymer and/or their dietary and
10 nutraceutically acceptable salts of the same and/or hydrates of the active substance that provide a
timed release formulation of the active substance.